## **Conceptual Cross-Section Cap Design Options** 6" vegetated topsoil Original Grade a) Soil Cap 18" clean fill soil Revised Grade Q., Q., Q., Q., Q., Q., Q., Q., Q. Trench backfill Cap Trench Backfill ——Suitability of various materials, 6" vegetated topsoil reinforcement and extent of backfilling will be evaluated during final design 24" compacted low-permeability soil (10<sup>-6</sup> cm/sec) b) Low Permeability Soil Cap \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ Trench backfill ransition zone to avoid 6" vegetated topsoil differential settlement c) FML Cap 6" clean fill soil Synthetic Flexible Membrane Liner (FML) Mined out Rogers Geotextile Coal Seam Trench backfill 6" vegetated topsoil d) FML/GCL Cap 6" clean fill soil Synthetic Flexible Membrane Liner (FML) Geosynthetic Clay Liner (GCL) Trench backfill

FIGURE **7-1**CAP DESIGNS

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